

Solutions to POW due 1/27/10

Evaluate each of the following. Each will be worth  $\frac{1}{2}$  point.

$\sin \frac{\pi}{3}$	$\frac{\sqrt{3}}{2}$	$\sec \frac{3\pi}{4}$	$-\sqrt{2}$	$\sin \frac{\pi}{6}$	$\frac{1}{2}$	$\tan \frac{2\pi}{3}$	$-\sqrt{3}$
$\cos \frac{7\pi}{4}$	$\frac{\sqrt{2}}{2}$	$\tan \frac{5\pi}{4}$	1	$\csc \frac{\pi}{3}$	$\frac{2\sqrt{3}}{3}$	$\cos \frac{3\pi}{2}$	0
$\tan \frac{\pi}{2}$	und	$\csc \frac{\pi}{2}$	1	$\cot \frac{2\pi}{3}$	$-\frac{\sqrt{3}}{3}$	$\csc \frac{2\pi}{3}$	$\frac{2\sqrt{3}}{3}$
$\csc \frac{\pi}{4}$	$\sqrt{2}$	$\sin \frac{5\pi}{6}$	$\frac{1}{2}$	$\sec \frac{11\pi}{6}$	$\frac{2\sqrt{3}}{3}$	$\cot \frac{5\pi}{6}$	$-\sqrt{3}$
$\sec \pi$	-1	$\cot \frac{\pi}{3}$	$\frac{\sqrt{3}}{3}$	$\cos \frac{3\pi}{4}$	$-\frac{\sqrt{2}}{2}$	$\sin \frac{\pi}{4}$	$\frac{\sqrt{2}}{2}$

POW due 2/3/10

Solve each of the following for  $0 \leq x < 2\pi$  :

1.  $\sin x = \frac{\sqrt{3}}{2}$

2.  $\cos x = \frac{-1}{2}$

3.  $\tan x = \frac{\sqrt{3}}{3}$

4.  $\sec x = -\sqrt{2}$

5.  $\csc x = 1$

6.  $\cot x = -1$

7.  $\sin x = \frac{-\sqrt{3}}{2}$

8.  $\cos x = -1$

9.  $\cos x = \frac{-\sqrt{2}}{2}$

10.  $\tan x = \frac{-\sqrt{3}}{3}$